CLAIMS

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- 1. A nematicidal protein which comprises the sequence shown in SEQ ID NO: 1
- 5 2. A nematicidal protein having at least 70% identity to a protein as claimed in claim 1.
 - 3. A nematicidal protein which comprises the protein of claim 1 or claim 2 wherein the N-terminal methionine residue has been cleaved.
- 4. A polynucleotide which encodes a protein as claimed in claim 1 or claim 2.
 - 5. The polynucleotide as claimed in claim 4 which comprises sequence shown in SEQ ID NO: 2.
- 6. A polynucleotide which is the complement of one which hybridises to a sequence as defined in claim 5 under stringent conditions and wherein said polynucleotide encodes a protein which is nematicidal.
 - 7. A construct comprising the polynucleotide of any one of claims 4 to 6.
 - 8. A construct as claimed in claim 7 wherein the polynucleotide is operably linked to a transcription initiation region and a transcriptional termination region.
 - 9. A construct as claimed in claim 8 which further comprises a selectable marker.
 - 10. A host cell comprising a polynucleotide as claimed in any one of claims 4 to 6, or a construct as claimed in any one of claim 7 to 9.
- 11. A transgenic plant comprising a polynucleotide as claimed in any one of claims 4 to 6 or a construct as claimed in any one of claims 7 to 9.
 - 12. A method of providing a plant or a plant part with a nematicidal protein comprising:

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- a) inserting into the genome of the plant or of plant material a polynucleotide as claimed in any one of claims 4 to 6, or a construct as claimed in any one of claims 7 to 9;
- b) regenerating plants or plant parts therefrom; and
- c) selecting those plants or plant parts having said protein.
- 13. Plants or plant parts obtained according to the method of claim 12.
- 14. Plants or plant parts as claimed in claim 13 which comprise a further agronomic trait selected from the group consisting of:
 - a) herbicide resistance;
 - b) insect resistance;

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- c) fungus resistance;
- d) nematode resistance;
- e) altered stress tolerance;
- f) altered yield; and
- g) altered nutritional content.
- 15. The use of a polynucleotide as claimed in any one of claims 4 to 6 or a construct as claimed in any one of claims 7 to 9 in a method of producing plants which are resistant and/or tolerant to nematodes.
 - 16. The use of a protein as claimed in any one of claims 1 to 3 as an active ingredient in the production of a nematicide.
 - 17. A method of controlling nematodes comprising providing at a locus where said nematodes feed a protein according to any one of claims 1 to 3.
- 18. A composition comprising a nematicidally effective amount of at least one protein as claimed in any one of claims 1 to 3 and an agriculturally acceptable carrier and/or a diluent and/or a nematode attractant.